

# Exhibit A

Curriculum Vitae of Sandeep Chatterjee, Ph.D.  
Contact: sandeep@experantis.com (e-mail) +1 650-759-6523 (phone)

## Professional Summary

Sandeep Chatterjee, Ph.D. is a seasoned technology expert and business professional with over 10 years of hands-on contributions as a thought leader, technologist, consultant, entrepreneur, and author. He is an expert in computer software systems, with particular emphasis on distributed systems and architectures, service-oriented architectures (SOAs) and Web Services, end-to-end security, quality-of-service (QoS), as well as mobile and wireless systems and applications. He is the author of a book on developing enterprise computing systems which has been adopted by over 100 universities worldwide and also by corporate customers.

Dr. Chatterjee has extensive experience in architecting, developing, optimizing, deploying and managing complex computing systems throughout the world, and technical expertise in developing enterprise-class applications using J2EE, XML, SOAP Web services, and mobile technologies. He has invented, architected, and led the development (product, QA, documentation) as well as the initial sales & marketing efforts for key eBusiness, mobile, Web services, and J2EE middleware products and solutions at Cyndeo, Satora Networks, Bluestone Software, and Hewlett-Packard.

### Awards and Honors:

- Named a Young Global Leader for 2011 by the World Economic Forum for professional accomplishments, commitment to society and potential to contribute to shaping the future of the world.
- Doctoral dissertation at the Massachusetts Institute of Technology (MIT) was selected as one of the most important inventions in computing, and the invention is preserved and showcased in a time-capsule at the Museum of Science in Boston, Massachusetts.

## Expertise

<ul style="list-style-type: none"> <li>▪ J2EE Application Servers</li> <li>▪ Servlets/JSPs/EJBs</li> <li>▪ Web Services &amp; Service Oriented Architectures (SOAs)</li> <li>▪ SOAP, WSDL, UDDI</li> <li>▪ Portals &amp; Portlets</li> <li>▪ Optimized Mobile/Wireless Systems</li> <li>▪ POS terminals, PDAs, Phones and other mobile devices</li> <li>▪ Mobile &amp; Wireless Data Comm.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Remote Transactions &amp; Comm.</li> <li>▪ Security &amp; Authentication</li> <li>▪ Financial Transactioning</li> <li>▪ Programming Languages, including C, C++ &amp; Java, and tools including JBuilder &amp; IntelliJ</li> <li>▪ Operating Systems, including Windows, Linux, Palm OS</li> </ul>
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## Education

<u>College or University</u>	<u>Degree</u>
Harvard University	Executive Education Program on Global Business Leadership
Massachusetts Institute of Technology	Ph.D., Computer Science
Massachusetts Institute of Technology	M.S., Computer Science
University of California at Berkeley	B.S., Electrical Eng & Computer Science

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## Professional Experience

From: 2013  
To: present  
Organization: Experantis LLC  
Title: Chief Executive Officer  
Summary: Experantis LLC provides consultation and services in all facets of commercial litigation.

From: 2007  
To: 2013  
Organization: Shuv Gray LLC  
Title: Chief Executive Officer  
Summary: Shuv Gray LLC provides information technology and intellectual property consultation and services.

From: 2007  
To: 2012  
Organization: SourceTrace Systems, Inc.  
Title: Chief Technology Officer & Executive Vice President  
Summary: SourceTrace Systems is a leading vendor of end-to-end mobile and wireless distributed transactional systems for the financial services, agricultural commodities, and product distribution markets around the world.

From: 2004  
To: 2007  
Organization: Cyndeo LLC  
Title: Chief Executive Officer  
Summary: Founded Cyndeo to be a leading provider of enterprise integration and mobilization solutions as well as technology strategy consulting and outsourcing services to global corporations, government agencies, and major not-for-profit organizations. Cyndeo provides consulting, software engineering development, and management services to companies and organizations of all sizes, from Fortune Global 100 corporations to small organizations in developing countries.

From: 2001  
To: 2002  
Organization: Hewlett-Packard (Palo Alto, CA)  
Title: Senior Member of Technical Staff  
Summary: Independently identified a need in the mobile and e-Business marketplace for a more flexible Web Services platform. Invented a patent-pending (applied) solution, and led the development as well as the initial sales and marketing efforts.

- This next-generation J2EE (HP/Bluestone app server) Web Services solution ties together the emerging Web Services standards, end-to-end transactions, and optimized mobile services & applications.
- Led and managed the entire lifecycle of the product from conception, architectural design, product development, QA, documentation, senior management approval,

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patent filing, preparation for marketing launch at JavaOne, as well as interfacing with early adopter customers and strategic partners.

- Managed relationships with multiple HP organizations and teams that contributed to the overall solution.
- Positioned the product, targeted key early adopters and partners, and leveraged my own contacts to build successful strategic relationships.
- Selected to provide support to HP/Bluestone's top sales manager, and helped land a strategic account in the Asia-Pac market.
- Selected as the representative for Hewlett Packard to the JSR 172 Expert Group that is defining the worldwide standard for J2ME mobile Web Services.

From: 1999  
To: 2000  
Organization: Satora Networks  
Title: Founder & Chief Technology Officer  
Summary: Founded Satora Networks to create wireless platforms and services for Internet devices based on the technologies invented by Dr. Chatterjee as part of his Ph.D. research at MIT Lab for Computer Science.

- Raised venture funding, recruited the management and core engineering teams, set corporate and product strategy, handled customer and partner relations, and managed overall corporate affairs.
- Architected and led the development of the StrongARM-based mobile hardware platform, Linux-based mobile OS, client-side services, and server-side J2EE environment.
- Landed key customer and partner wins, managed revenue and burn rate to become profitable early on, and oversaw the growth of the company.

From: 1995  
To: 2001  
Organization: MIT Lab for Computer Science  
Title: Doctoral Researcher  
Summary: Designed a modular system architecture that supports the cost-effective development of network devices and services. The system consists of Lego-like commodity hardware and standards-based software components that are quickly composed together through a development environment into optimized end-user devices as well as client-side services.

- Architected and implemented the entire system: a Linux-based client software environment, a wireless network and StrongARM processor-based device hardware platform, as well as a Web-based design and optimization environment and tool.
- Successfully mentored and managed a research group of 6 Masters and Bachelors students.
- The technology underlying Dr. Chatterjee's thesis was selected as one of the top inventions in thirty-five year history of MIT Laboratory for Computer Science.

From: 1997  
To: 1999  
Organization: FidelityCAPITAL (Boston, MA)

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Title:	Entrepreneur-In-Residence
Summary:	Worked with Fidelity senior management and FidelityCAPITAL partners to source, analyze, and fund technology start-ups strategic to Fidelity interests. <ul style="list-style-type: none"><li>▪ Evaluated business plans submitted to Fidelity for venture funding, and analyzed emerging market and technology trends to identify opportunities for internal spin-offs in the telecom and eBusiness spaces.</li><li>▪ Founded and served as President &amp; CTO of a wireless devices and services company (Satora Networks) that was seed funded by Fidelity.</li></ul>

## Litigation Support Experience

*Expert Engagement:*

Type of Matter:	Enterprise Software Patent Infringement
Law Firm:	Morrison & Foerster
Case Name:	Software AG and Software AG v. BEA Systems
Services Provided:	Retained as BEA's expert; submitted two expert reports; deposed twice; prepared for trial (exhibits, testimony, cross examination).
Disposition:	Settled
Date:	2004

*Expert Engagement:*

Type of Matter:	Enterprise software intellectual property litigation.
Law Firm:	Morrison & Foerster
Case Name:	
Services Provided:	Consultant to attorney
Disposition:	Settled
Date:	2004-2005

*Expert Engagement:*

Type of Matter:	Mobile software intellectual property litigation.
Law Firm:	Perkins Coie
Case Name:	Esmertec v. Tao Group
Services Provided:	Retained as Esmertec's expert; submitted two expert reports.
Disposition:	Settled
Date:	2006

*Expert Engagement:*

Type of Matter:	Enterprise and mobile software intellectual property litigation.
Law Firm:	McDermott Will & Emery
Case Name:	Metrologic Instruments v. Symbol Technologies
Services Provided:	Consultant to attorney
Disposition:	Settled
Date:	2006-2007

*Expert Engagement:*

Type of Matter:	Distributed and mobile computing trade secret litigation.
Law Firm:	Haralson, Miller, Pitt, Feldman & McAnally
Case Name:	Modular Mining Systems (Komatsu Ltd.) v. Jigsaw Systems et al.

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Services Provided: Retained as Modular's expert; submitted two expert reports; deposed.  
Disposition: Summary judgment  
Date: 2006-2008

*Expert Engagement:*  
Type of Matter: Distributed systems, mobile computing and object oriented programming  
intellectual property litigation.  
Law Firm: Kirkland & Ellis  
Case Name:  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2007

*Expert Engagement:*  
Type of Matter: Communications software and systems intellectual property litigation.  
Law Firm: Carey Rodriguez Greenberg & Paul  
Case Name: Catch Curve v. Venali  
Services Provided: Retained as Venali's expert; submitted two expert reports  
Disposition: Summary judgment  
Date: 2008

*Expert Engagement:*  
Type of Matter: Distributed computing and network routing systems intellectual property  
litigation.  
Law Firm: Vinson & Elkins  
Case Name: WebXChange v. Dell  
Services Provided: Consultant to attorney  
Disposition: Summary judgment  
Date: 2008-2010

*Expert Engagement:*  
Type of Matter: Communications systems intellectual property litigation.  
Law Firm: Kirkland & Ellis  
Case Name: Motorola, Inc. et al. v. Rembrandt Technologies, LP  
Services Provided: Retained as plaintiff's expert; submitted expert report  
Disposition: Settled  
Date: 2009

*Expert Engagement:*  
Type of Matter: Database and object mapping intellectual property litigation.  
Law Firm: Kirkland & Ellis  
Case Name: DataTern v. United Airlines  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2009

*Expert Engagement:*  
Type of Matter: Control systems intellectual property litigation.  
Law Firm: Morgan Lewis & Bockius  
Case Name: Finisar v. Source Photonics

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Services Provided: Consultant to attorney; source code review;  
Disposition: Settled  
Date: 2010

*Expert Engagement:*  
Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Agility IP  
Case Name: MShift v. Digital Insight  
Services Provided: Retained as MShift's expert; wrote two expert reports;  
Disposition: Summary judgment  
Date: 2010

*Expert Engagement:*  
Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Morgan Lewis & Bockius  
Case Name: OpenWave v. 724 Solutions  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2010

*Expert Engagement:*  
Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Winston Strawn  
Case Name: Ganas v. Charles Schwab et al  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2011

*Expert Engagement:*  
Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Drinker Biddle  
Case Name: De Lage Landen Operational Services v. Third Pillar Systems  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2011

*Expert Engagement:*  
Type of Matter: Mobile systems trade secret misappropriation litigation.  
Law Firm: Berliner Cohen  
Case Name: Damodharan Ulagaratchalan v. Dhyan Infotech  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2011

*Expert Engagement:*  
Type of Matter: Control systems intellectual property litigation.  
Law Firm: Morgan Lewis & Bockius  
Case Name: Finisar v. Oplink  
Services Provided: Consultant to attorney; source code review  
Disposition: Settled

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Date: 2011

*Expert Engagement:*

Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Ropes & Gray  
Case Name: Motorola Mobility v. Microsoft  
Services Provided: Consultant to attorney  
Disposition: Settled  
Date: 2011-2012

*Expert Engagement:*

Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Jeffer Mangels Butler & Mitchell  
Case Name: EMG Technology v. Radio Shack Corp. et al  
Services Provided: Consultant to attorney; source code review  
Disposition: Settled  
Date: 2012

*Expert Engagement:*

Type of Matter: Wireless networking & management intellectual property litigation.  
Law Firm: Kirkland & Ellis  
Case Name: Netgear v. Ruckus Wireless  
Services Provided: Retained as Netgear's expert; source code review  
Disposition: Adjudicated  
Date: 2012-2013

*Expert Engagement:*

Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Morgan Lewis & Bockius  
Case Name: XpertUniverse v. Cisco Systems  
Services Provided: Retained as Cisco's expert; submitted expert report; source code review; deposition; trial  
Disposition: Adjudicated  
Date: 2012-2013

*Expert Engagement:*

Type of Matter: Distributed computing systems contract litigation.  
Law Firm: Berliner Cohen  
Case Name: Skillnet Solutions v. Entertainment Publications  
Services Provided: Retained as Entertainment's expert  
Disposition: Dismissed  
Date: 2013

*Expert Engagement:*

Type of Matter: Mobile systems intellectual property litigation.  
Law Firm: Mayer Brown  
Case Name: Aeritas v. US Airways, Inc., Delta Airlines, Inc., Alaska Air Group  
Services Provided: Retained as the airlines' expert; submitted 3 expert reports; source code review; depositions  
Disposition: Settled

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Date: 2013

*Expert Engagement:*

Type of Matter: Distributed systems intellectual property litigation.  
Law Firm: Ropes & Gray  
Case Name: Wellogix v. ADP et. al.  
Services Provided: Retained as ADP's expert  
Disposition: Stayed  
Date: 2013

*Expert Engagement:*

Type of Matter: Trade secret misappropriation litigation.  
Law Firm: Heritage Law Group  
Case Name: Bradford Technologies v. NCV Software et al.  
Services Provided: Retained as Bradford's expert; submitted expert report  
Disposition:  
Date: 2013

*Expert Engagement:*

Type of Matter: Contract dispute litigation.  
Law Firm: Morgan Lewis & Bockius  
Case Name: AMC Technologies v. Cisco Systems  
Services Provided: Retained as Cisco's expert; submitted expert report; deposition  
Disposition: Settled  
Date: 2013

*Expert Engagement:*

Type of Matter: Trade secret misappropriation litigation.  
Law Firm: Lexanalytica  
Case Name: PQ Labs v. Qi et. al.  
Services Provided: Retained as defendants' expert; source code review; deposition  
Disposition:  
Date: 2013

*Expert Engagement:*

Type of Matter: Distributed systems and security intellectual property litigation.  
Law Firm: Troutman Sanders  
Case Name: Media Rights Technologies, Inc. v. Capital One Financial Corporation  
Services Provided: Retained as defendants' expert; source code reviews; expert reports; declaration  
Disposition: Adjudicated  
Date: 2013

*Expert Engagement:*

Type of Matter: Distributed systems intellectual property litigation.  
Law Firm: Antonelli, Harrington & Thompson LLP  
Case Name: MacroSolve, Inc. v. GEICO Insurance Agency, Inc. et al  
Services Provided: Retained as plaintiff's source code expert  
Disposition: Concluded  
Date: 2013

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*Expert Engagement:*

Type of Matter: Distributed computing intellectual property litigation.  
Law Firm: Rothwell, Figg, Ernst & Manbeck, P.C.  
Case Name: SecureBuy v. CardinalCommerce  
Services Provided: Retained as plaintiff's expert; inter partes review; declarations  
Disposition:  
Date: 2013

*Expert Engagement:*

Type of Matter: Distributed computing intellectual property litigation.  
Law Firm: Mayer Brown LLP  
Case Name: American Airlines , Inc. et al. v. Loyalty Conversion Systems Corporation  
Services Provided: Retained as the airlines' expert; covered business method petitions; declarations  
Disposition:  
Date: 2014

*Expert Engagement:*

Type of Matter: Mobile computing and security intellectual property litigation.  
Law Firm: Dickstein Shapiro, LLP  
Case Name: Tierra Intellectual Borinquen, Inc. v. Toshiba Corporation et. al.,  
Services Provided: Retained as defendants' expert; declaration  
Disposition:  
Date: 2014

### Non-Litigation Consulting Projects

*Consulting Engagement:*

Type of Matter: Enterprise software architecture and development  
Client: Sevak Solutions, Inc.  
Services Provided: Architect, specify, and develop enterprise-class software for secure financial transactioning in multiple markets and countries around the world  
Date: 2005-2006

*Consulting Engagement:*

Type of Matter: Enterprise software architecture and development  
Client: United States Agency for International Development (USAID)  
Services Provided: Specify and develop financial transactioning and tracking software  
Date: 2004-2005

*Consulting Engagement:*

Type of Matter: Training services  
Client: South Korean Ministry of Information and Communications  
Services Provided: Conducted a workshop to train selected university professors and corporate researchers on properly using mobile and distributed technology for strategic and financial growth.  
Date: 2004

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**Consulting Engagement:**

Type of Matter: Product and service strategy and development  
Client: Hewlett-Packard Company  
Services Provided: Analyze market opportunities for new, market-specific technology product and service offerings  
Date: 2004

**Consulting Engagement:**

Type of Matter: Mobile enterprise software  
Client: ACCION International  
Services Provided: Specified, architected, and developed a mobile enterprise software system for optimizing wireless transactioning.  
Date: 2003

**Consulting Engagement:**

Type of Matter: Market, technology and services strategy development  
Client: Hewlett-Packard Laboratories  
Services Provided: Analyzed multiple country-specific market needs and opportunities, and proposed technology and service offerings  
Date: 2003

## Professional Affiliations, Achievements & Awards

- Named a Young Global Leader for 2011 by the World Economic Forum for professional accomplishments, commitment to society and potential to contribute to shaping the future of the world.
- Doctoral dissertation at the Massachusetts Institute of Technology (MIT) was selected as one of the most important inventions in computing, and the invention is preserved and showcased in a time-capsule at the Museum of Science in Boston, Massachusetts.
- Member of the JSR 172 Expert Group that defined the worldwide standard for mobile Web services.
- Invited by the South Korean Government and the Ministry of Information and Communications to deliver a workshop in Seoul, South Korea on Mobile and Enterprise Web Service Computing with the objective of making South Korean companies and universities more globally competitive.

## Publications

1. Chatterjee, Sandeep, Electronic Services Anywhere: Concepts and Best Practices (Pearson Education 2010)
2. Chatterjee, Sandeep and Webber, James, Developing Enterprise Web Services: An Architect's Guide (Pearson Education Korea Ltd. and Hong Reung Science Pub. Co. 2005), Korean Trans.
3. Chatterjee, Sandeep and Webber, James, Developing Enterprise Web Services: An Architect's Guide (Prentice Hall 2004).
4. Chatterjee, Sandeep and Webber, James, Developing Enterprise Web Services: An Architect's Guide (Pearson Education Singapore Pvt. Ltd. 2004), Indian Reprint.

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5. Chatterjee, Sandeep, "Enterprise Technology: Web Services: The Next Revolution in IT," in *Dataquest* (March 2004).
6. Chatterjee, Sandeep, "Enterprise 2004 Trends: On A Cautious Note," *Dataquest* (Feb. 2004).
7. Chatterjee, Sandeep, "A Real-World Web Services-Based Application," *JavaBoutique* ([http://javaboutique.internet.com/articles/WSApplications/realWorld3\\_1.html](http://javaboutique.internet.com/articles/WSApplications/realWorld3_1.html)).
8. Chatterjee, Sandeep, "Write Once, Run Anywhere Web Services," *JavaBoutique* ([http://javaboutique.internet.com/articles/WSApplications/realWorld2\\_1.html](http://javaboutique.internet.com/articles/WSApplications/realWorld2_1.html)).
9. Chatterjee, Sandeep, "Developing Real World Web Services-Based Applications," *JavaBoutique* (<http://javaboutique.internet.com/articles/WSApplications/>).
10. Chatterjee, Sandeep, Doctoral Thesis Dissertation, "Composable System Resources As An Architecture For Networked Systems," Massachusetts Institute of Technology (2001).
11. Keckler, Stephen W., Chang, Andrew, Lee, Whay Sing, Chatterjee, Sandeep, and Dally, William J., "Concurrent Event Handling Through Multithreading," *IEEE Trans. Computers* 48(9), pages 903-916 (1999).
12. Chatterjee, Sandeep and Devadas, Srinivas, "MASC Composable Computing Infrastructure For Intelligent Environments," *Proceedings of the Industrial Electronics Conference*, pages 132-138 (1999).
13. Chatterjee, Sandeep, "SANI: A Seamless and Non-Intrusive Framework and Agent for Creating Intelligent Interactive Homes," *Second International Conference on Autonomous Agents*, pages 436-440 (1998).
14. Chatterjee, Sandeep, "Towards A MASC Appliances-Based Educational Paradigm," *ACM Symposium on Applied Computing*, pages 112-116 (1998).
15. Chatterjee, Sandeep, "Towards Rapidly Deployable Intelligent Environments," *American Association for Artificial Intelligence Symposium on Intelligent Environments*, pages 31-36 (1998).
16. Chatterjee, Sandeep, "The ModuleC Network Architecture: A Novel Approach Of Computing Through Information Appliances," *IEEE International Symposium on Consumer Electronics* (1997).
17. Chatterjee, Sandeep, Masters Thesis, "Asynchronous Event Handling," Massachusetts Institute of Technology Technical Report (May 1997).
18. Tennenhouse, David L. and Chatterjee, Sandeep, "The First 10 Feet: The Missing Story For Encouraging User Investment In Universal Broadband Connectivity" (October 1996).
19. Chatterjee, Sandeep and Faraboschi, Paolo, "The VLIW Trace Scheduling Compiler Visual Analysis System," Hewlett-Packard Laboratories Internal Technical Report (September 1995).
20. Chatterjee, Sandeep and Donohue, Richard J., "Electron Gamma Shower Windows 2," *International Conference on Monte Carlo Simulations in Nuclear & High Energy Physics* (February 1993).